

FIG. 1

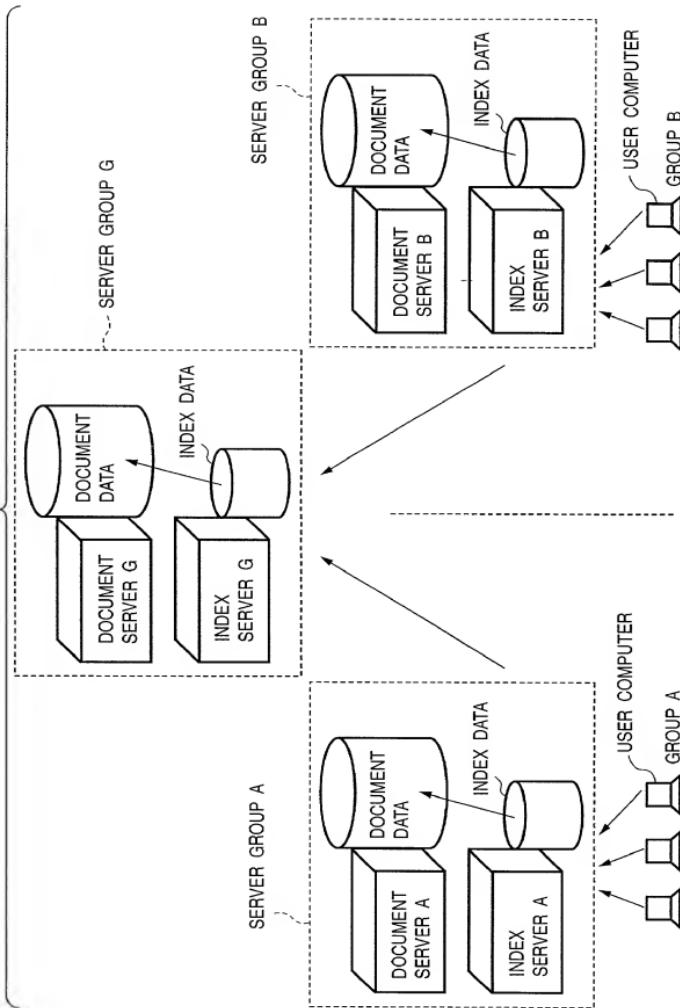


FIG. 2

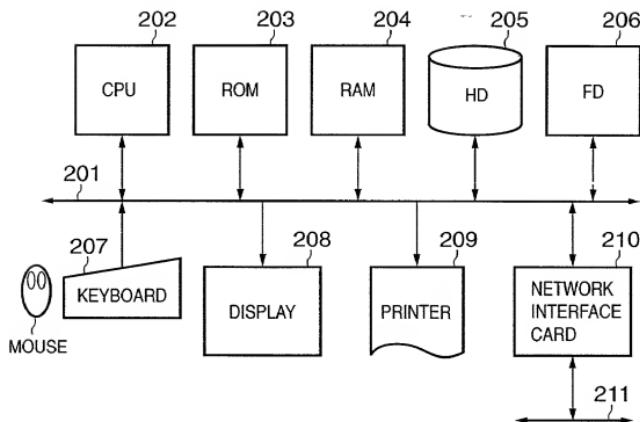


FIG. 3

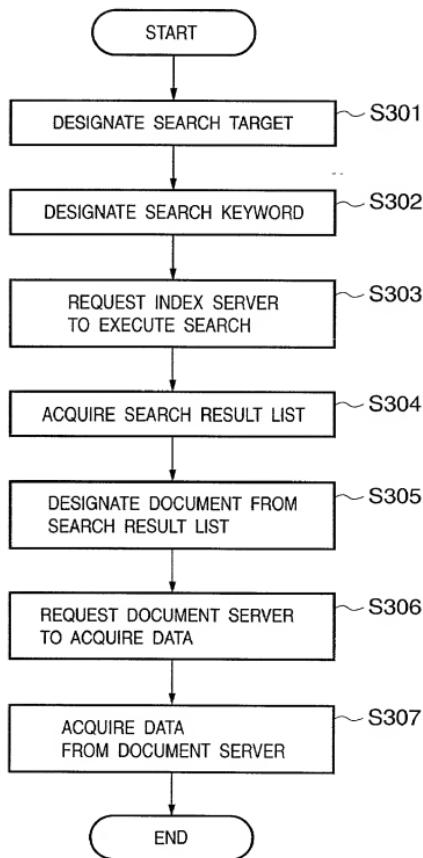
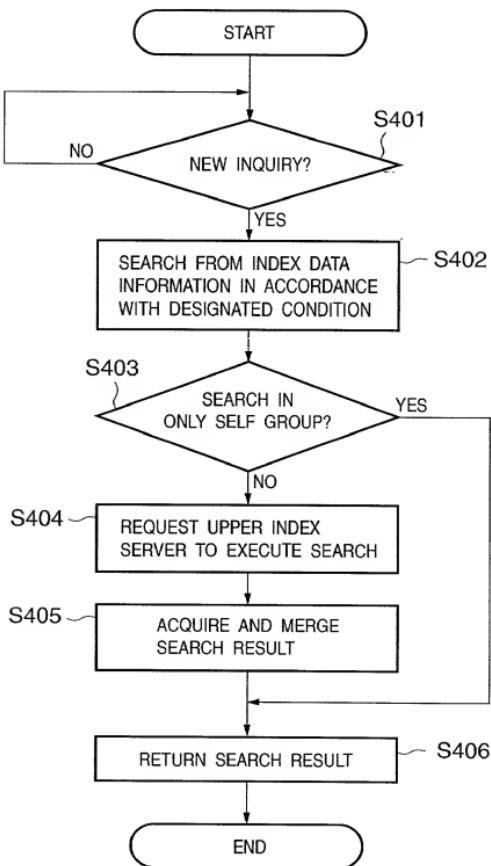


FIG. 4



09875013.060701

FIG. 5

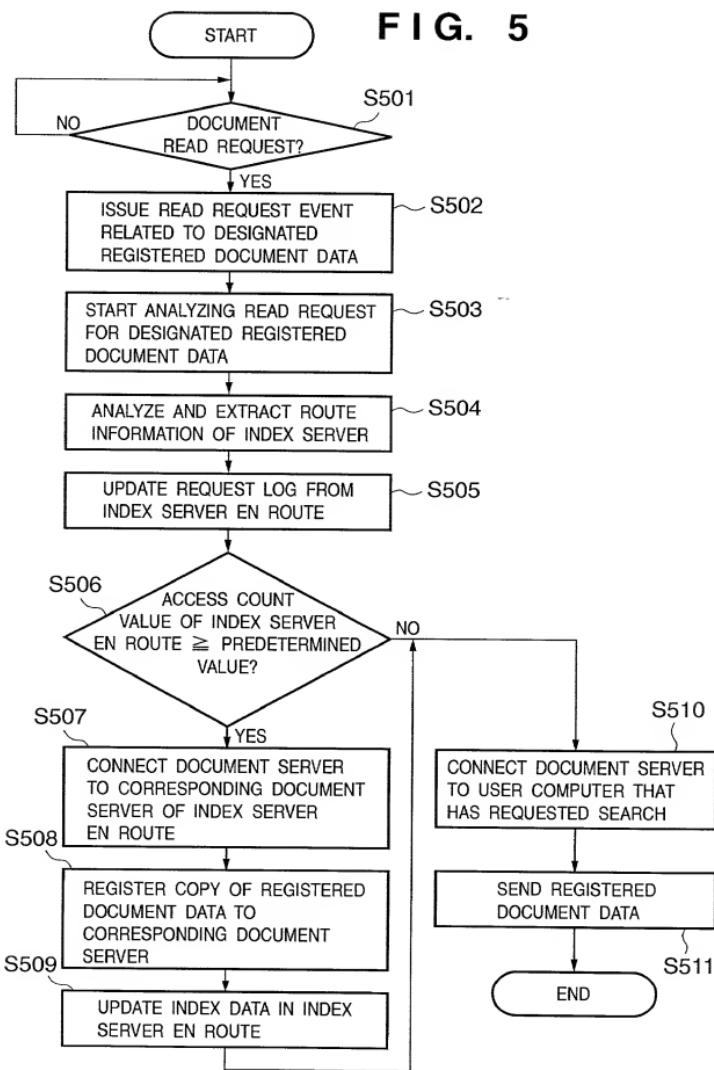


FIG. 6

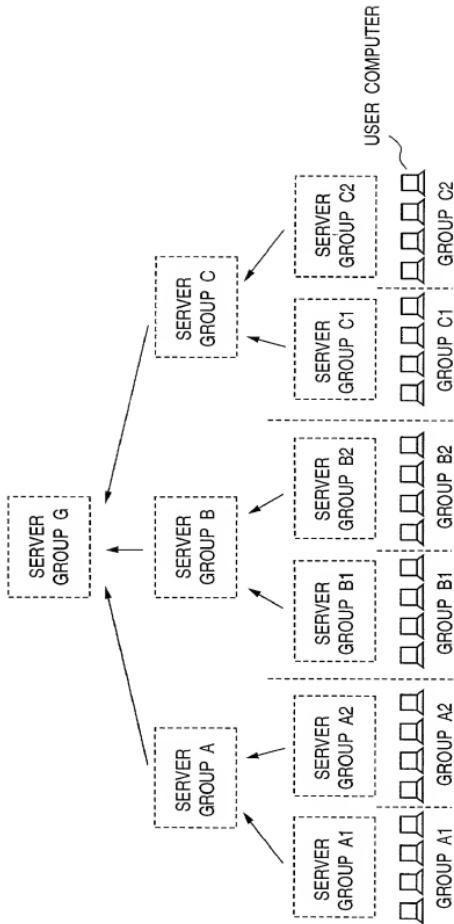


FIG. 7

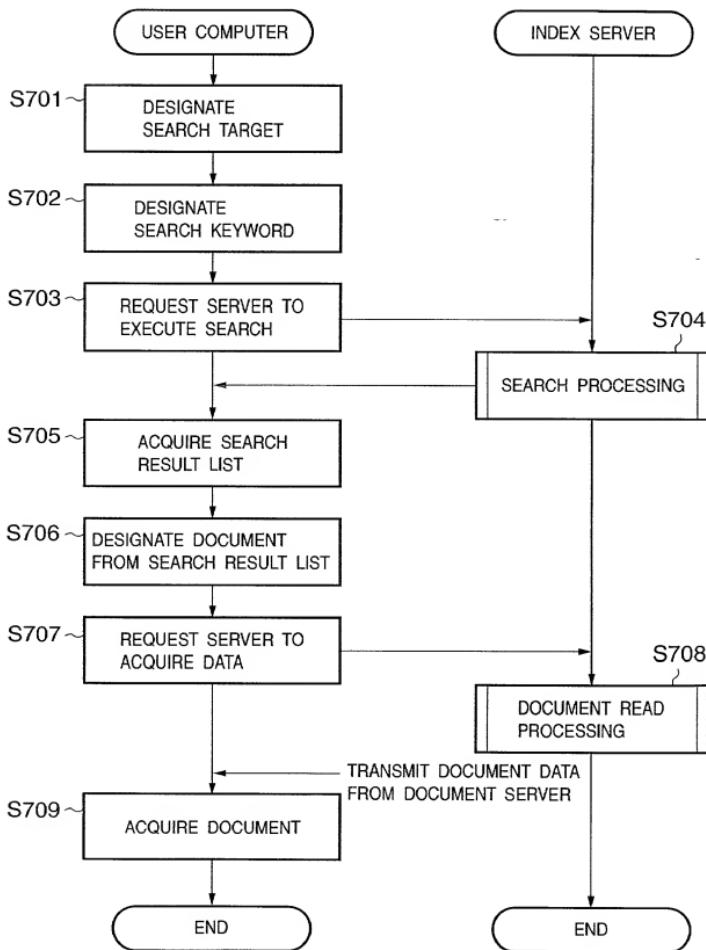


FIG. 8

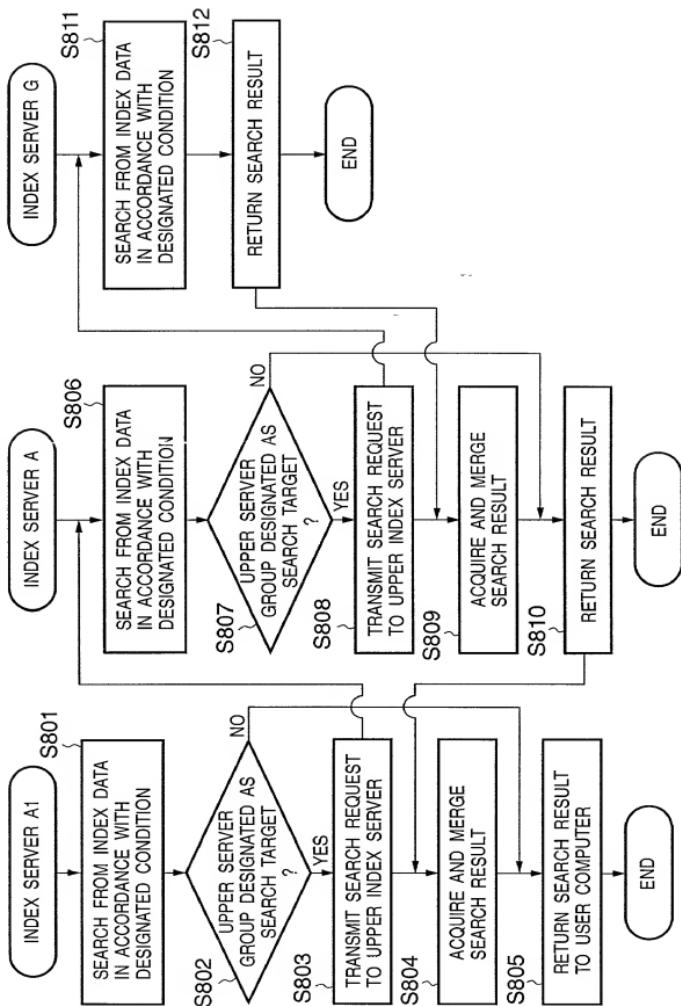


FIG. 9

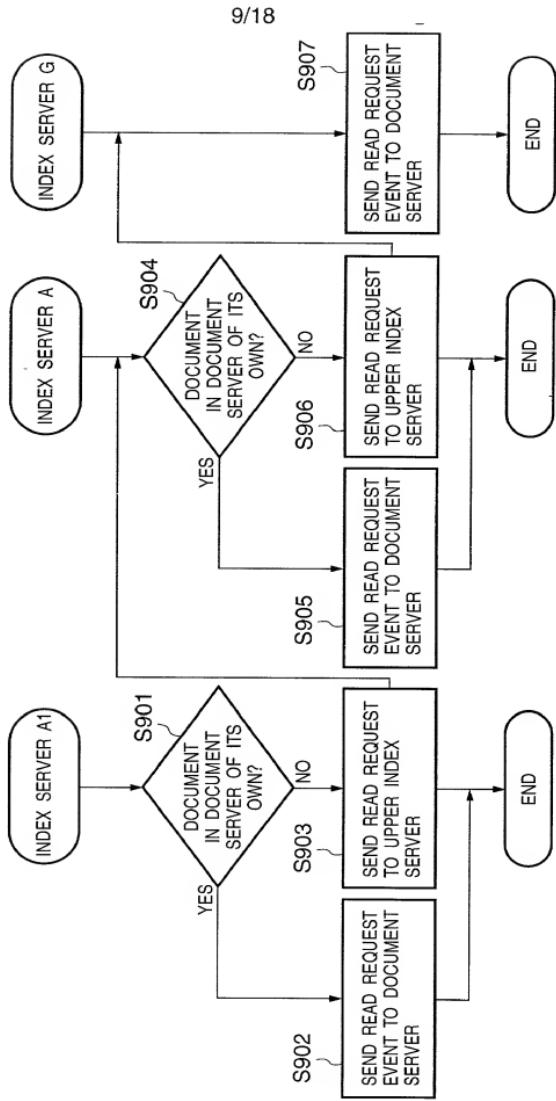
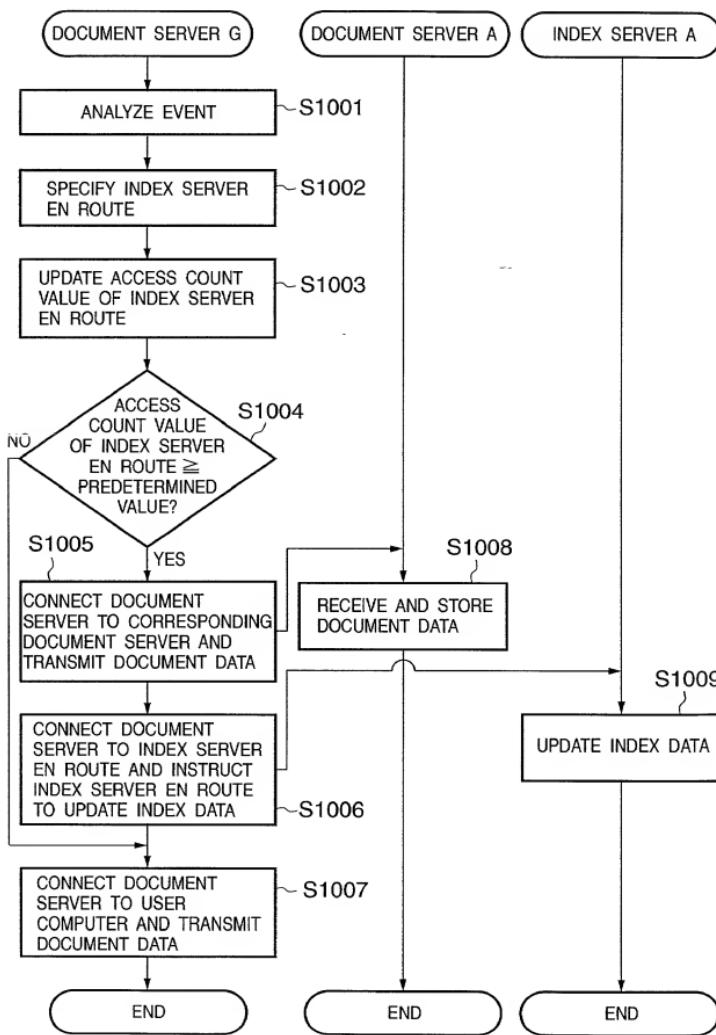


FIG. 10



11/18
FIG. 11

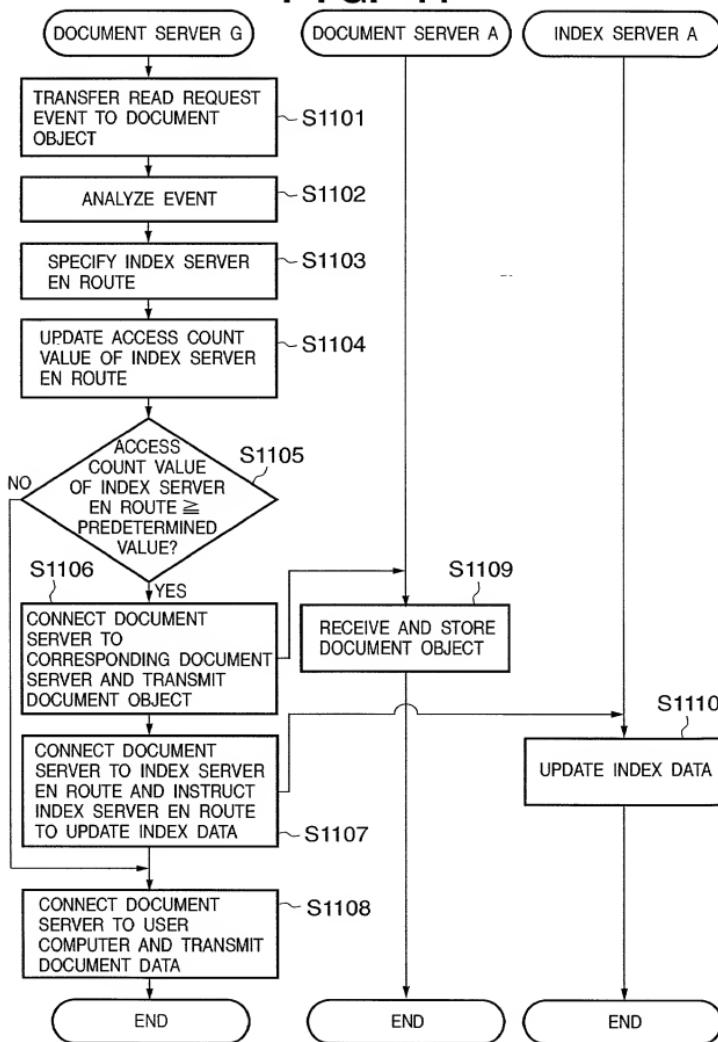


FIG. 12A

| | |
|-------------------------|------------|
| DOCUMENT : | DOCUMENT X |
| STORAGE POSITION : | SERVER G |
| ACCESS CODE : | abed |
| INDEX SERVER EN ROUTE : | |
| REQUEST SOURCE : | USER Y |

FIG. 12B

| | |
|-------------------------|------------|
| DOCUMENT : | DOCUMENT X |
| STORAGE POSITION : | SERVER G |
| ACCESS CODE : | abed |
| INDEX SERVER EN ROUTE : | A1 |
| REQUEST SOURCE : | USER Y |

FIG. 12C

| | |
|-------------------------|------------|
| DOCUMENT : | DOCUMENT X |
| STORAGE POSITION : | SERVER G |
| ACCESS CODE : | abed |
| INDEX SERVER EN ROUTE : | A1-A |
| REQUEST SOURCE : | USER Y |

FIG. 13

ACCESS INFORMATION

| DOCUMENT | INDEX SERVER EN ROUTE | | | | |
|------------|-----------------------|----------|----------|-----------|-----------|
| | SERVER A | SERVER B | SERVER C | SERVER A1 | SERVER A2 |
| DOCUMENT 1 | 5 | 4 | 0 | 4 | 1 |
| DOCUMENT 2 | 3 | 3 | 2 | 1 | 2 |
| DOCUMENT 3 | 7 | 0 | 8 | 2 | 5 |
| DOCUMENT 4 | 2 | 0 | 1 | 0 | 2 |
| ... | ... | ... | ... | ... | ... |

FIG. 14

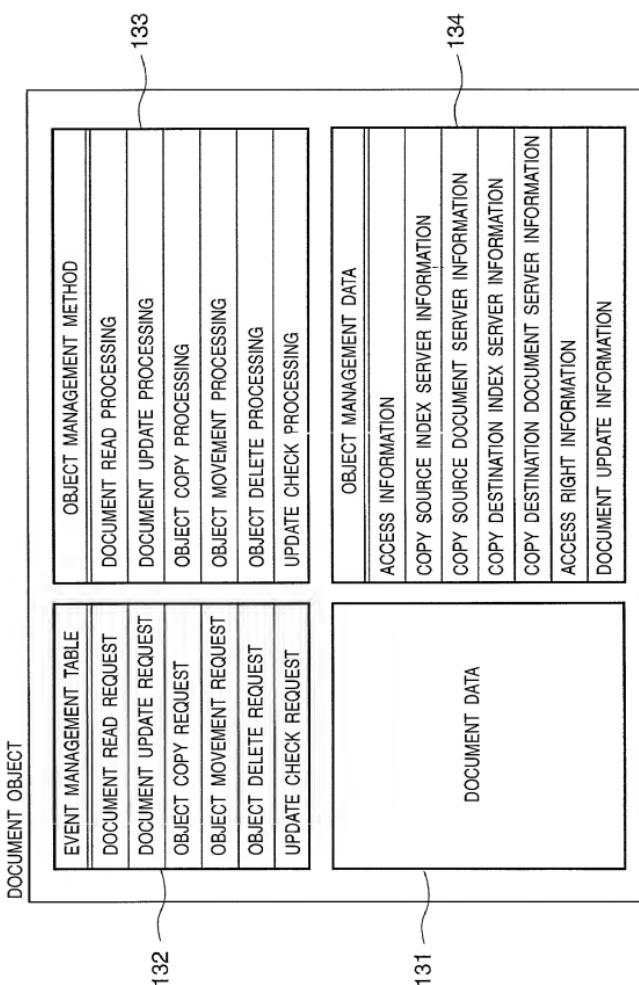


FIG. 15

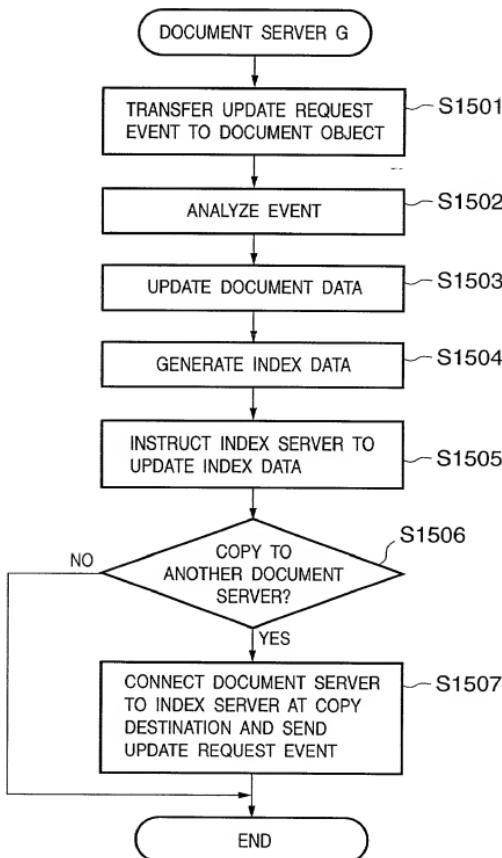


FIG. 16

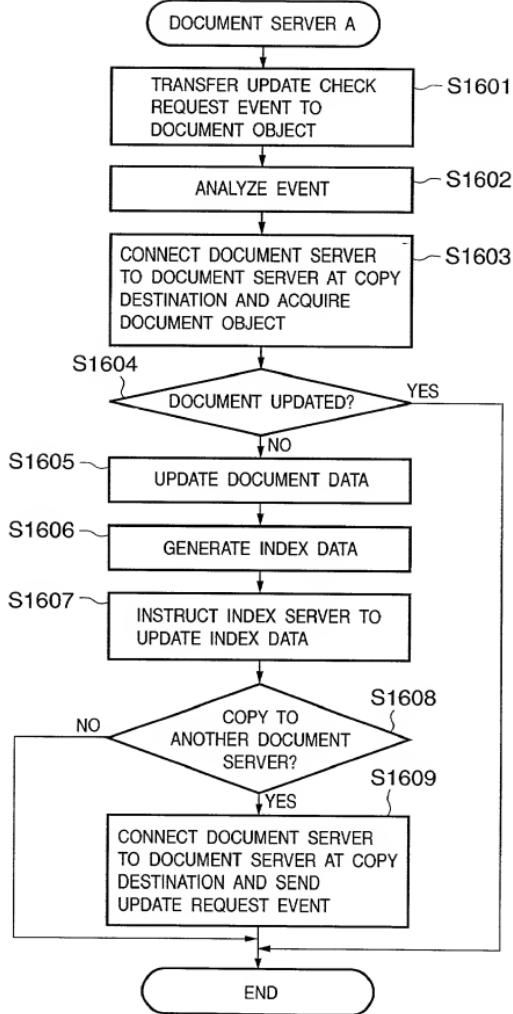


FIG. 17

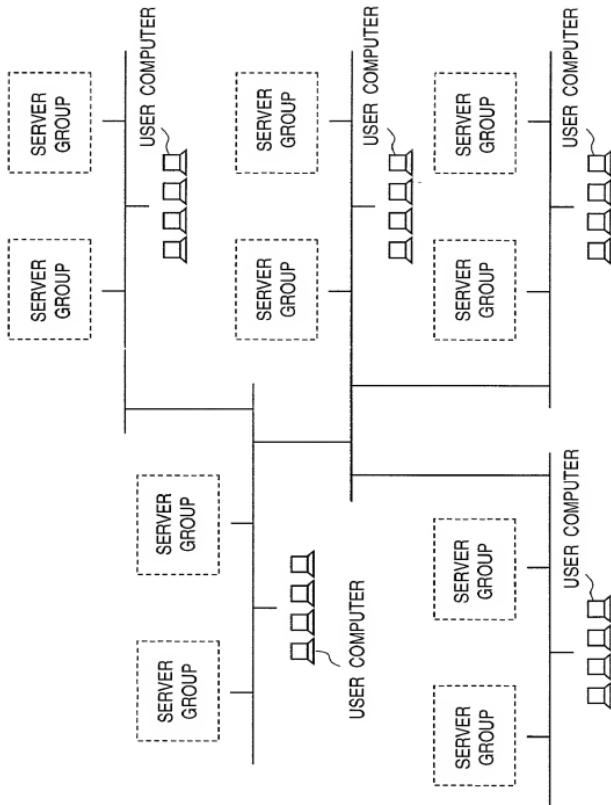


FIG. 18

ROUTE INDEX INFORMATION

| REQUEST SOURCE | INDEX SERVER EN ROUTE |
|---------------------------|-----------------------|
| USER COMPUTER OF GROUP A1 | SERVER A1 - SERVER A |
| USER COMPUTER OF GROUP A2 | SERVER A2 - SERVER A |
| USER COMPUTER OF GROUP B1 | SERVER B1 - SERVER B |
| USER COMPUTER OF GROUP B2 | SERVER B2 - SERVER B |
| USER COMPUTER OF GROUP C1 | SERVER C1 - SERVER C |
| USER COMPUTER OF GROUP C2 | SERVER C2 - SERVER C |